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## FACSIMILE TRANSMISSION COVER SHEET

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Date May 6, 2004

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## Comments:

As discussed, enclosed please find a copy of the post card receipt evidencing receipt in TC 2600 on March 26, 2004 and the paper entitled Response and Surrender of Original Letters Patent together with a copy of the ribbon page and first page of the patent. It is requested that these papers evidence the filing and apparent of loss of such papers in the PTO, but should be sufficient to respond to the Ex Parte Quayle action and issuance of a notice of allowance at the earliest time is requested.

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Patent Dkt. No. 501.26379R00 Attorney Initials MK/cee  
Application No. 10/633,655 Filing Date August 5, 2003  
Applicant(s) KAKU, et al  
Papers Filed Herewith on March 26, 2004

Receipt is hereby acknowledged of the papers filed as indicated by the checked items in connection with the above-identified application:

- New Application Transmittal Form       Credit Card Payment Form  
       Pages of Specification (       claims)      Fees \$         
 Sheets of Drawings       Assignment  
 Declaration (       pages)       Response to Office Action  
 Fee Transmittal Form       Petition for Extension of Time (       mos.)  
 Claim for Priority       Information Disclosure Statement  
 Priority Documents       PTO-1449       Copies of References  
 Assignment Papers       Revised Drawings (       sheets)  
 Issue Fee Transmittal       Notice of Appeal  
 Other Surrender of Original Letters Patent **RECEIVED**

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501.26379R00

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant(s): KAKU, et al

Serial No.: 10/633,655

Filed: August 5, 2003

For: METHOD AND APPARATUS FOR OPTICAL RECORDING  
AND REPRODUCING WITH TRACKING SERVO REDUCING  
TRACK OFFSET

Group: 2652

Examiner: W. Young

**RESPONSE AND SURRENDER OF ORIGINAL LETTERS PATENT**Mail Stop Non-Fee Response  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

March 26, 2004

Sir:

In response to the Office Action March 22, 2004, the following remarks are respectfully submitted in connection with the above-identified application together with the surrender of the Original Letters Patent.

The indication that claims 1-11 are allowed and this reissue is in condition for allowance except for surrender of the original patent, is acknowledged.

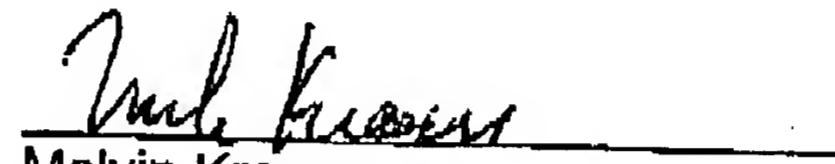
Applicants surrender herewith the Original Letters Patent, which is the only outstanding issue in this application, and submit that the informality noted by the Examiner has been overcome. Accordingly, issuance of a Notice of Allowance is respectfully requested.

To the extent necessary, applicant's petition for an extension of time under 37 CFR 1.136. Please charge any shortage in the fees due in connection with the filing

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of this paper, including extension of time fees, to Deposit Account No. 01-2135 (501.26379R00) and please credit any excess fees to such deposit account.

Respectfully submitted,



Melvin Kraus  
Registration No. 22,466  
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The  
United  
States  
of  
America



The Commissioner of Patents  
and Trademarks

*Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this*

United States Patent

*Grants to the person or persons having title to this patent the right to exclude others from making, using or selling the invention throughout the United States of America for the term of seventeen years from the date of this patent, subject to the payment of maintenance fees as provided by law.*

*Harry F. Manbeck, Jr.*

*Commissioner of Patents and Trademarks*

*Priscilla A. Fuller*  
*Attest*

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**United States Patent [19]**  
**Kaku et al.**

US005105409A  
**[11] Patent Number:** 5,105,409  
**[45] Date of Patent:** Apr. 14, 1992

**[54] METHOD AND APPARATUS FOR OPTICAL RECORDING AND REPRODUCTION WITH TRACKING SERVO REDUCING TRACK OFFSET**

4,785,442 11/1988 Ohtake et al. .... 369/44.32 X  
 4,807,210 2/1989 Kaku et al. .... 369/44.31 X  
 4,819,220 4/1989 Miyazaki et al. .... 369/44.29 X

**[75] Inventors:** Toshimitsu Kaku, Sagamihara; Kazuo Shigematsu, Saitama; Hisataka Sugiyama, Tokyo; Takeshi Maeda, Kokubunji; Masahiro Takasago, Odawara, all of Japan

*Primary Examiner—Roy N. Envall, Jr.*

*Assistant Examiner—W. R. Young*

*Attorney, Agent, or Firm—Antonelli, Terry, Stout & Kraus*

**[73] Assignee:** Hitachi, Ltd., Tokyo, Japan

**[37] ABSTRACT**

**[21] Appl. No.:** 230,971

Disclosed is an optical recording and reproducing apparatus comprising a light source directing a light spot toward a recording medium, a detection system detecting light reflected from the recording medium to derive an electrical signal from the reflected light, an information processing circuit modulating the intensity of the light spot according to writing pulses to record information on the recording medium and using the electrical signal to reproduce information from the recording medium, and a tracking servo circuit carrying out tracking servo operation on the basis of the electrical signal and including an extracting circuit connected to a source of extracting pulses having a pulse width at least equal to the writing pulse width so that writing pulse parts contained in the electrical signal are extracted during recording information, whereby a track offset occurring during information recording can be minimized, and the stability of the tracking servo system can be improved.

**[22] Filed:** Aug. 11, 1988

**11 Claims, 4 Drawing Sheets**

**[30] Foreign Application Priority Data**

Aug. 19, 1987 [JP] Japan ..... 62-204007

**[51] Int. CL<sup>1</sup>** ..... G11B 7/095

**[52] U.S. Cl.** ..... 369/44.31; 369/44.33;

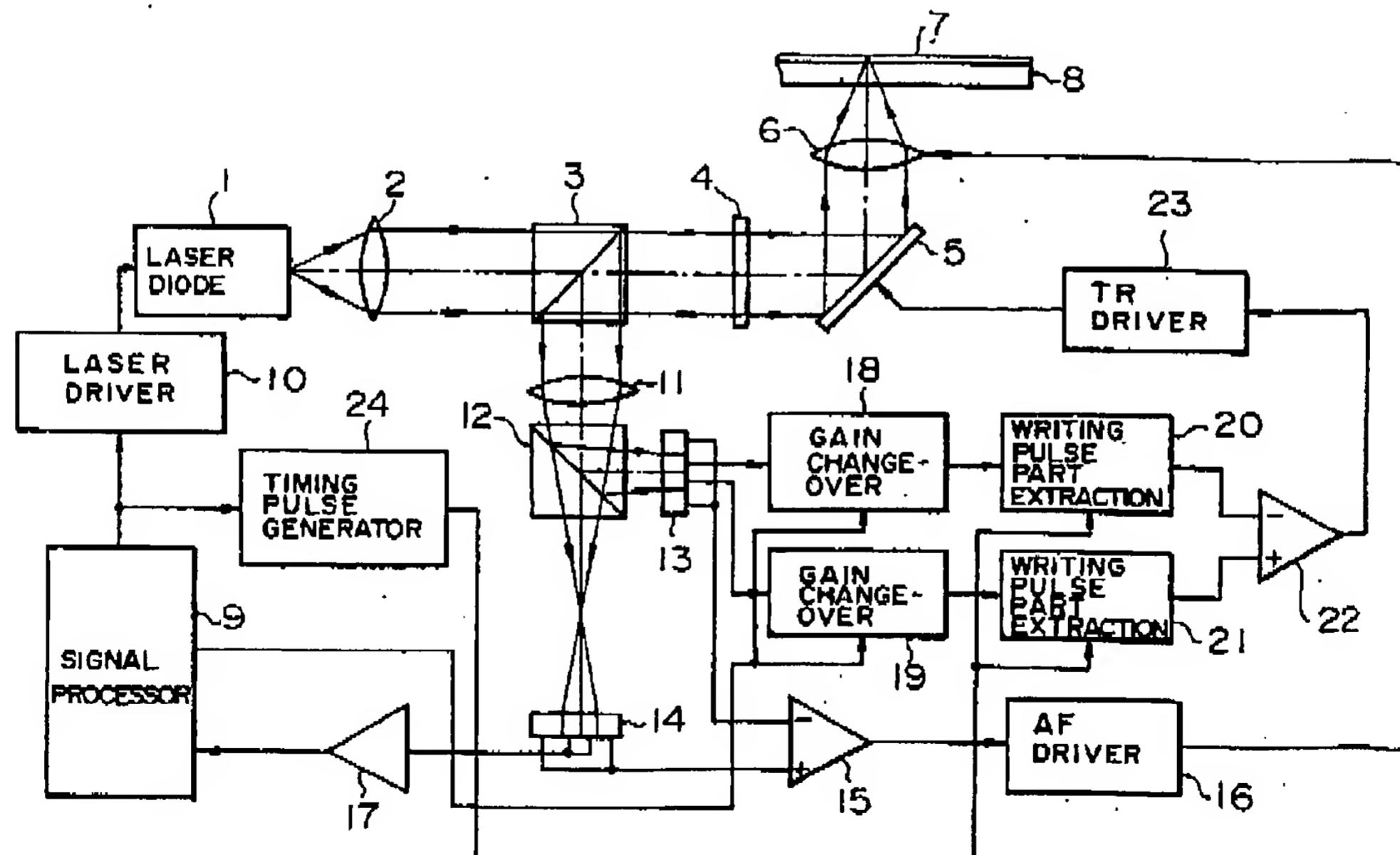
369/44.35; 369/44.42

**[58] Field of Search** .... 369/44.27, 44.29, 44.31-44.36, 369/44.39, 44.42, 105, 106

**[56] References Cited**

**U.S. PATENT DOCUMENTS**

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| 4,742,505 | 5/1988 | Takeuchi et al.  | ..... | 369/44.36   |
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| 4,751,695 | 6/1988 | Kaku et al.      | ..... | 369/44.32 X |
| 4,774,698 | 9/1988 | Henmi et al.     | ..... | 369/44.36 X |



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